TEABF₄ in Propylene carbonate with X ml of 2-Pentanone Addition

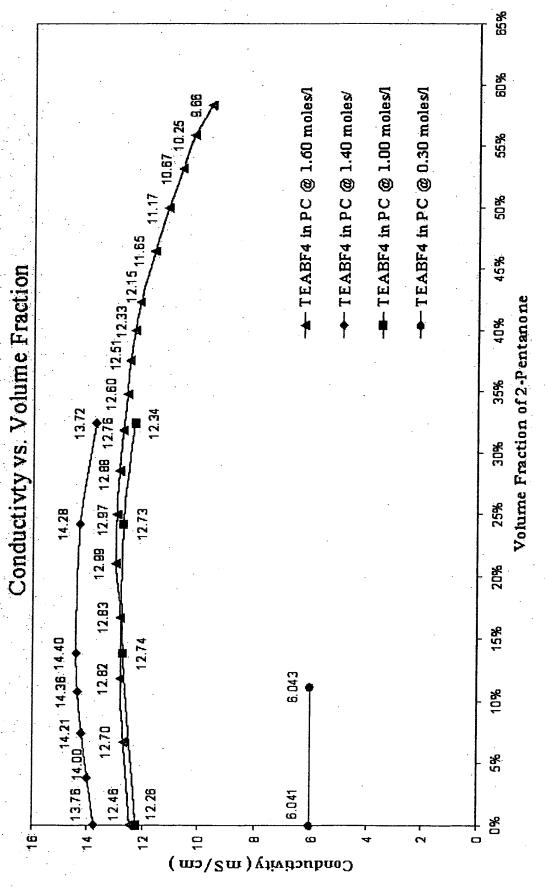


Fig.

Cyclic Voltammetry

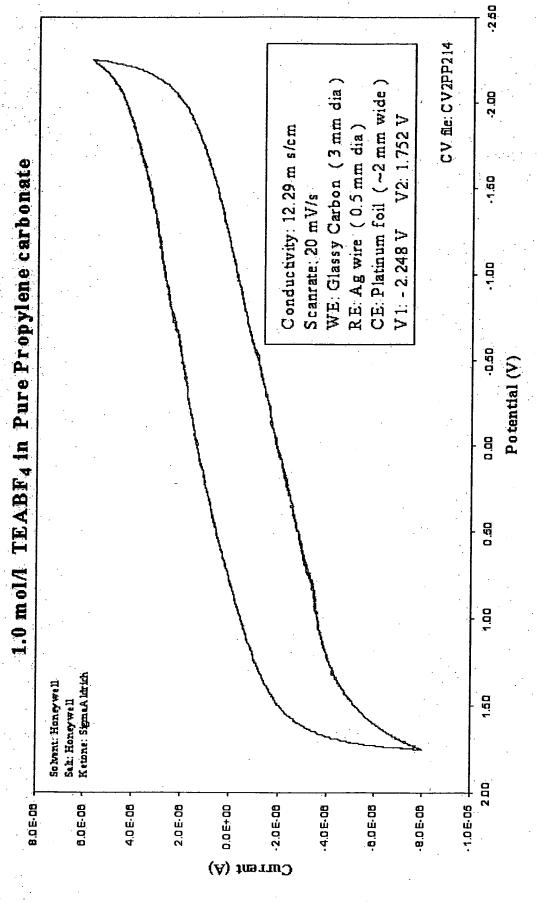


Fig. 2

4 ml Addition of 2-Pentanone into 15 ml TEABF4 / PC 1.0 mol/1 Cyclic Voltammetry

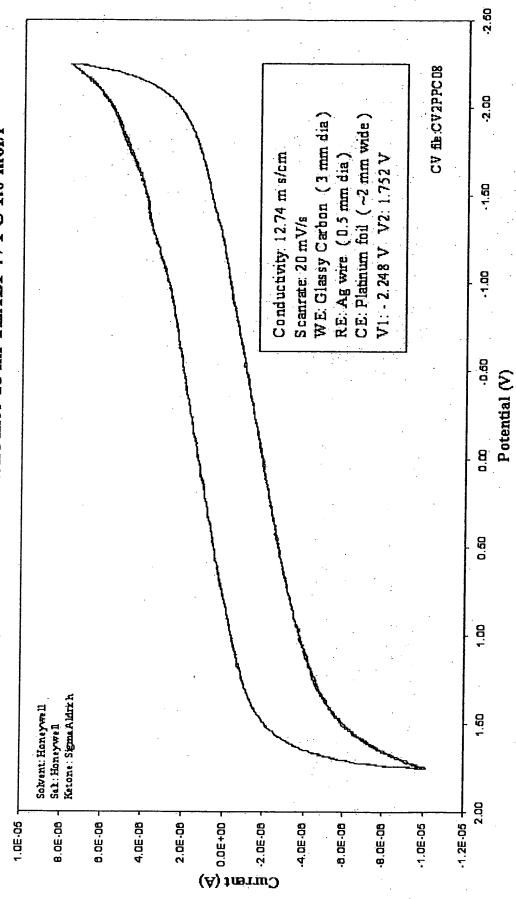


Fig. 3 Volume Fraction of 2-Pentanone 13.8%

4 ml Addition of 2-Pentanone into 25 ml TEABF4 / PC 1.40 mol/1 Cyclic Voltammetry Ket one: Signa Aldrich Sobert: Hangywell Sek: Hangywell 2.0E-05 1.5E-05 1.0E-05

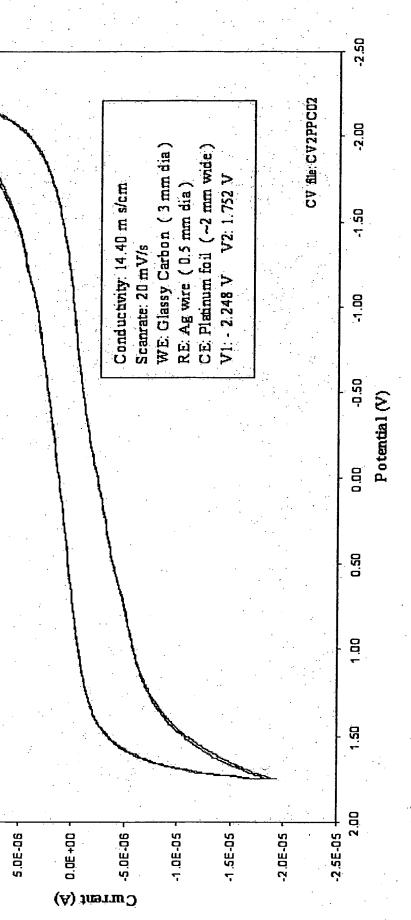


Fig.4 Volume Fraction of 2-Pentanone 13.8 %

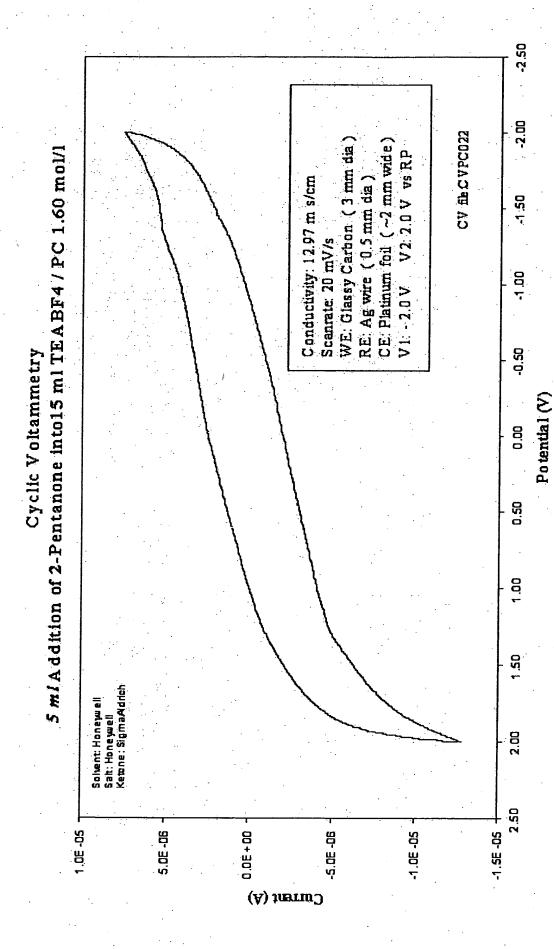
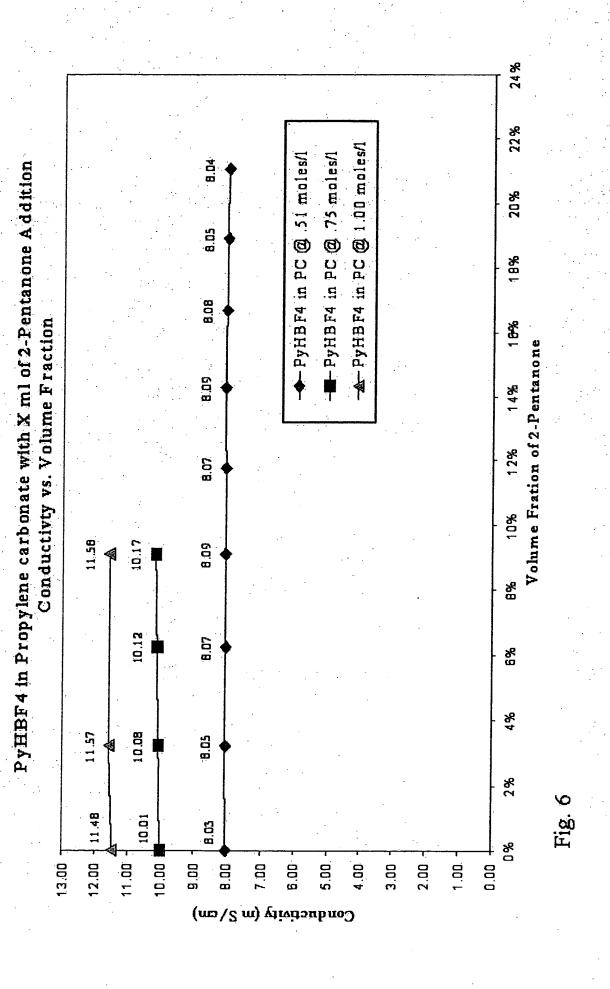
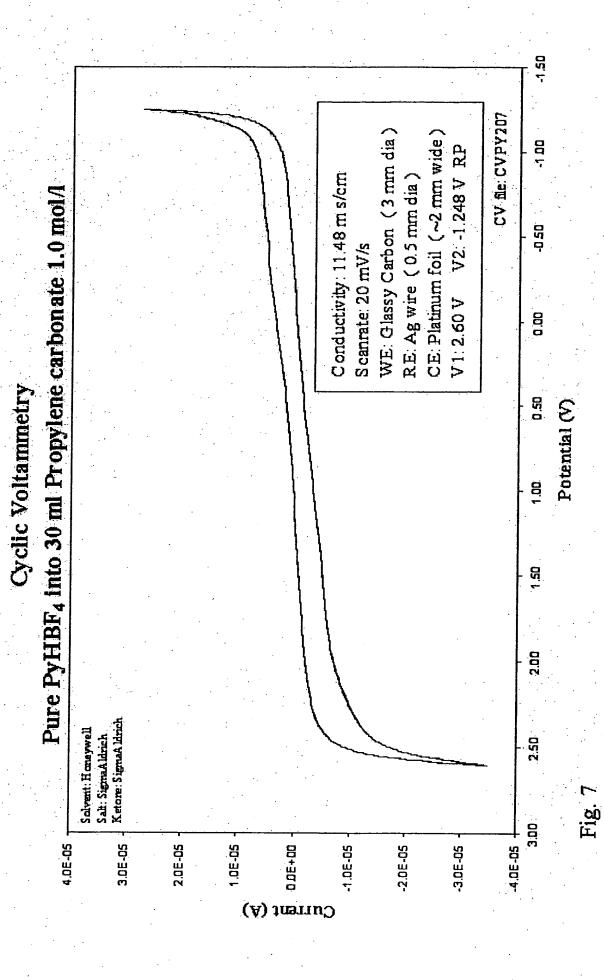


Fig. 5 Volume Fraction of 2-Pentanone 25 %





Cyclic Voltammetry

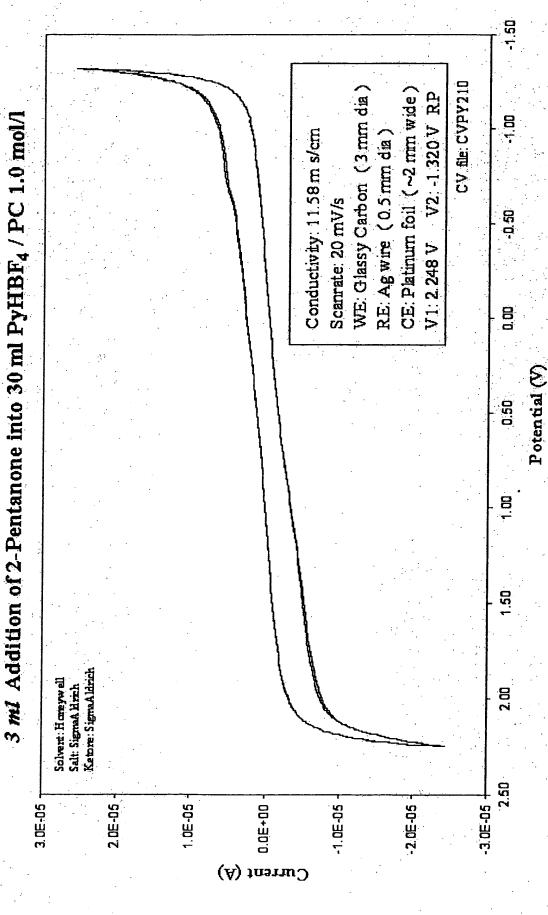


Fig. 8 Volume Fraction of 2-Pentanone 9.1 %

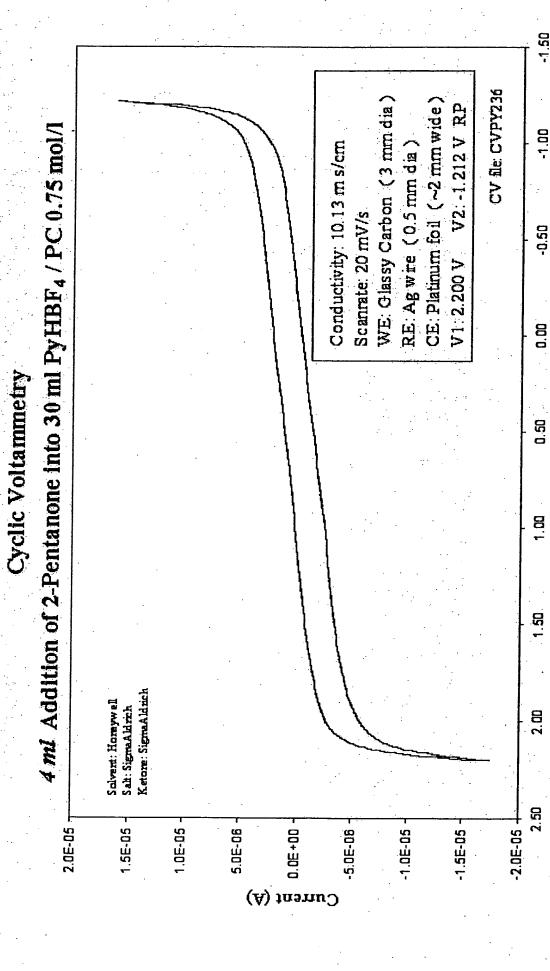


Fig. 9 Volume Fraction of 2-Pentanone 11.8%

Potential (V)

8 ml Addition of 2-Pentanone into 30 ml PyHBF₄ / PC 0.51 mol/1 Cyclic Voltammetry

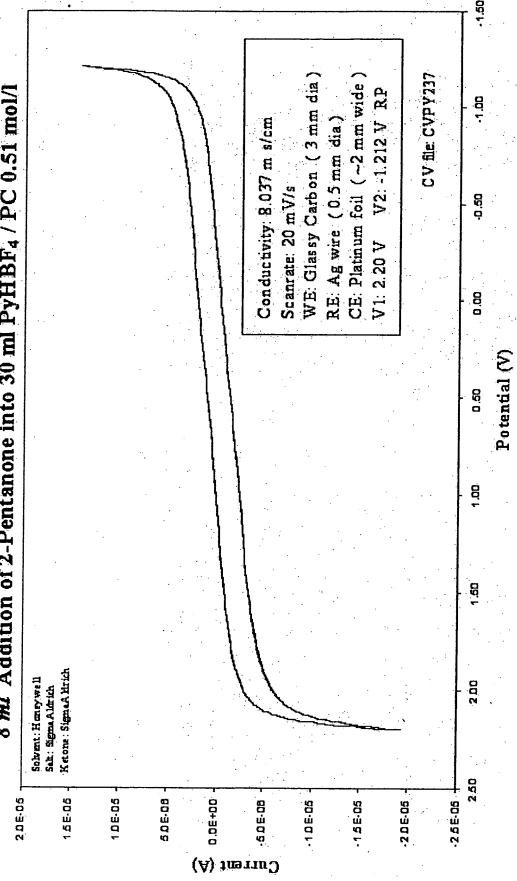
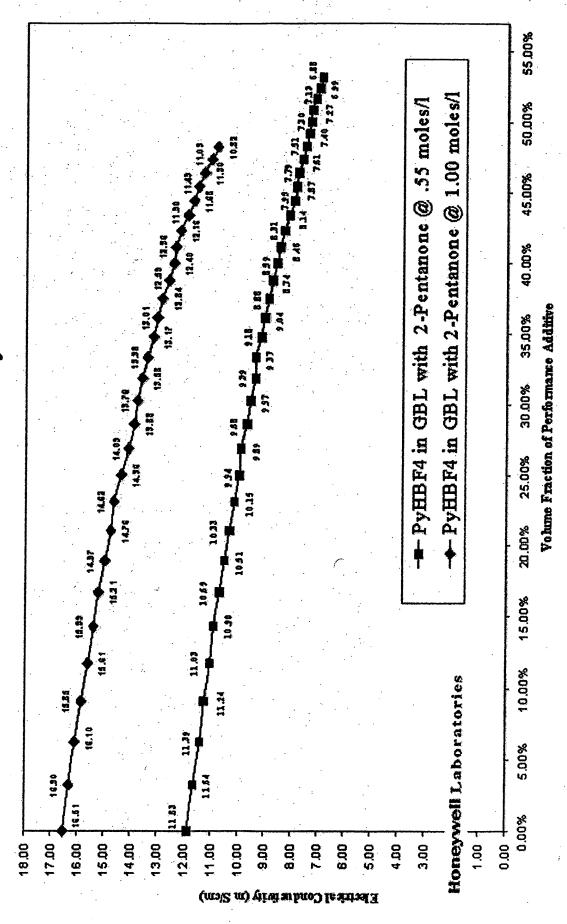


Fig. 10 Volume Fraction of 2-Pentanone 21.1%

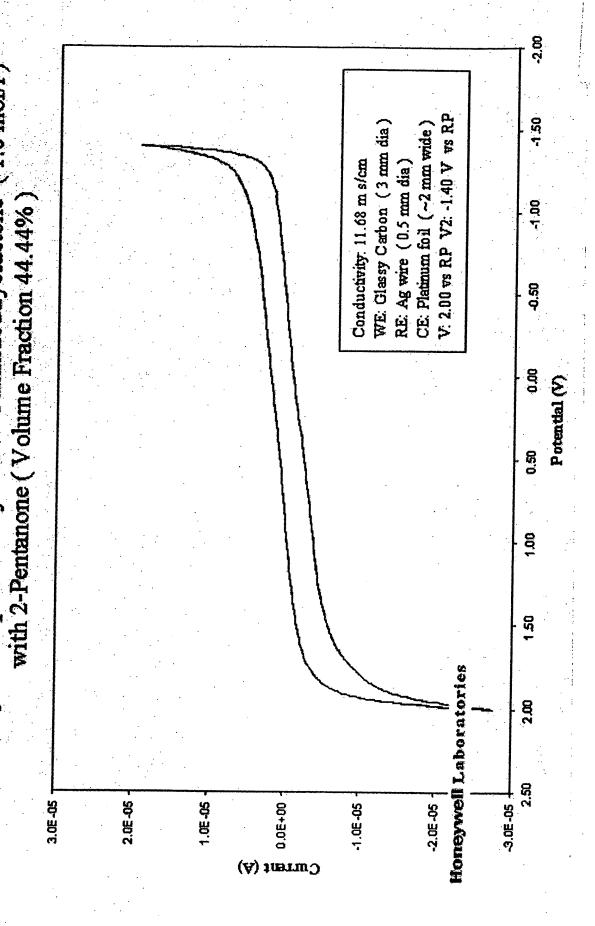
ig. 11

Pyridinium tetraflouroborate in Gammabutryo lactone with 2-Pentanone Conductivity Graph of



Electrolyte Composition: PyHBF4 / Gammabutryolactone (0.55 mol/1) V: 2.101 vs RP V2: -1.411 V vs RP CE: Platinum foil (~2 mm wide) WE: Glassy Carbon (3 mm dia Conductivity: 8.884 m s/cm RE: Ag wire (0.5 mm dia) Cyclic Voltammetry of Mixed Solvent Electrolyte 8. with 2-Pentanone (Volume Fraction 37.5%) -0,50 Potentfal (V) 0.50 8 1.50 40neywell Laboratories 8.8 -5.0E-05 4.0E-05 1.0E-05 0.0E+00 -1.0E.05 -2.0E-06 -3.0E-06 3.0E.05 2.0E-05

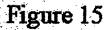
Electrolyte Composition: PyHBF4 / Gammabutryolactone (1.0 mol/l) Cyclic Voltammetry of Mixed Solvent Electrolyte Fig. 13



ig. 14

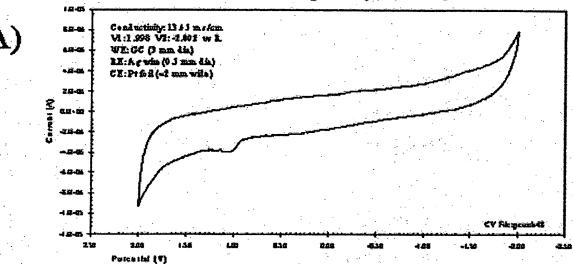
Tetraethylammonium tetraflouroborate in Gammabutryo lactone with 2-entanone Conductivity Graph of 16.1116.04 15.93 15.86 15.78 15.68 15.53 15.38 15.28 15.13 15.01 25.00% TEABF4 in GBL @ 1.47 moles/ ► TEABF4 in GBL @ 1.00 moles/ - TEABF4 in GBL @ 1.43 moles/ 20.00% 16.60 15.00% Honeywell Laboratories m3\2 m) & 8 10,00 19.00 16.00 17.00 12.00

Volume Fraction of 2-Pentanone

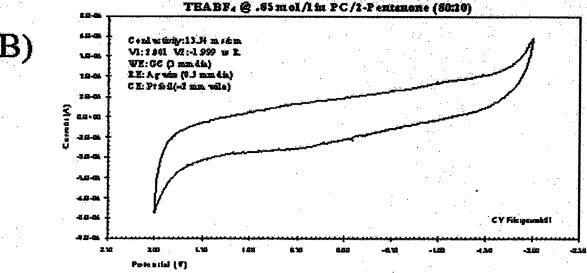


Cyclic Voltammetry

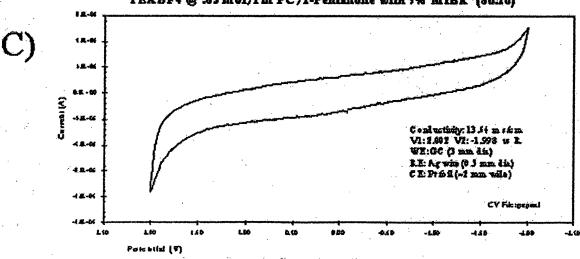




Cyclic Voltammetry
Scanrate: 20 m V/s - Before Chronoamperometry

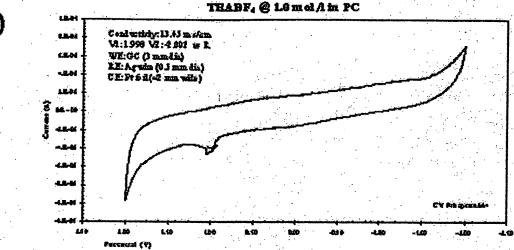


Cyclic Voltammetry
Scanrate: 20 m V/s - Before Chronoamperometry
TBABF4 @ .55 m ol/1 in PC/2-Pentanone with 7% MIBK (50:20)



Cyclic Voltammetry

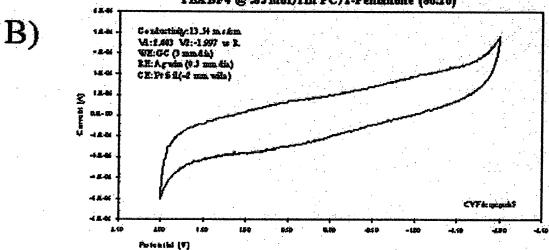
Scannate: 10 mV/s - After Chronoamperometry at + 1.50 v



Cyclic Voltammeny

Scanrate: 20 mV/s - After Chronosmperomeny at + 1.58 v

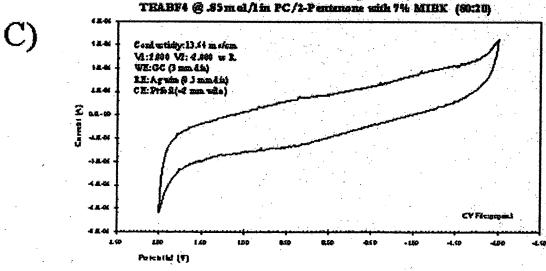
TEABF4 @ #5 mol/lin PC/2-Pentenone (80:29)



Cyclic Voltammetry

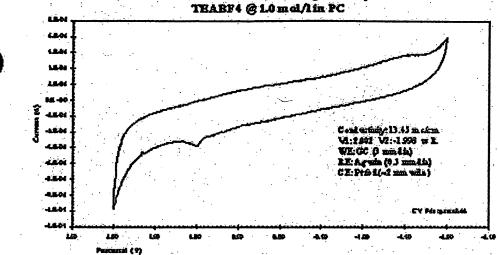
Scamate: 20 mV/s - After Chronosmp ecometry at + 1.50 v

TRABF4 @ Samul/Lin PC/2-Pentenone with 7th MTRK (Sec.2)





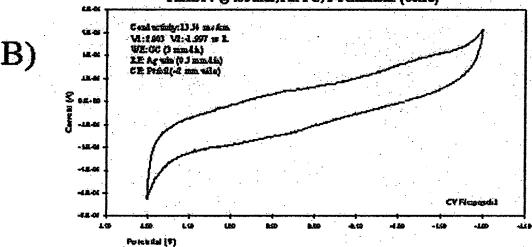
Cyclic Voltammetry
Scannete: 20 mV/s - After Chronoumperometry at - 1.50 v



Cyclic Voltammetry

Scannate: 20 mV/s - After Chronosinperometry at -1.50 v

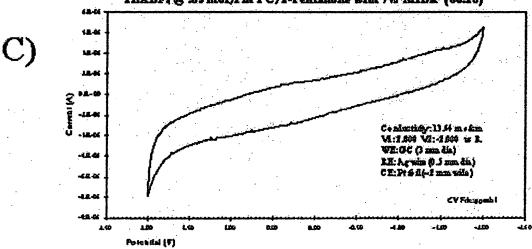
TRABF4 @ .85 mol /1 in PC/2-Pentanone (80:20)



Cyclic Voltammetry

Scannite: 20 mV/s - After Chronosmperometry at - 1.50 v

TRABF (@ .85 mol/l in PC/2-Pentanone with 7% MIBK (60:20)



Conductivity Graph
Comparison TEABF4 in Powith 2-Pentamne - 7% 8:45% MIBKI nterferace

